

CLAIMS

1. An external coolant conduit assembly (10) for connection between engine components in a coolant circuit of an engine, said assembly (10) comprising:

- 5 a conduit member (12) mountable to said components and defining a coolant passage (24) extending between an inlet (26) and an outlet (28) to the passage (24) in the member (12);
- an electrical generating device (14) mounted in the member (12) in heat transmitting relation to the coolant passage (24) intermediate the inlet (26) and outlet (28); and
- 10 a second engine accessory (16) mounted in the member (12) in heat transmitting relation to the coolant passage (24) intermediate the inlet (26) and outlet (28).

2. An assembly as in claim 1 wherein said conduit member includes an inner wall defining a cavity in heat transmitting relation to the coolant passage and said generating device is mounted in the cavity.

3. An assembly as in claim 2 wherein said inner wall comprises an outer wall of the generating device.

4. An assembly as in claim 1 wherein said inner wall includes cooling fins extending into said coolant passage for increasing cooling of the generating device.

5. An assembly as in claim 1 wherein said generating device is an alternator.

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6. An assembly as in claim 1 wherein said second engine accessory is an EGR valve operable to control exhaust gas flow between inlet and outlet ports in the conduit member.

7. An assembly as in claim 6 wherein said coolant passage extends in heat exchange relation to at least a valve body portion of the EGR valve.

8. An assembly as in claim 1 wherein said conduit member is a crossover for connection between coolant passages in opposite banks of a V-type engine, said crossover also defining a thermostat housing in the coolant passage and mounting a coolant temperature sensor extending into the coolant passage.

9. An assembly as in claim 1 wherein said conduit member is integrated as part of an engine intake manifold.

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